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## IN THE CLAIMS

Please amend the claims as follows:

(Withdrawn) A method of forming an inductor, comprising:
 depositing a layer of magnetic material on a germanium substrate;
 depositing a non-magnetic insulating layer on the magnetic material layer;
 depositing a triangular open inductor pattern on the insulating layer and above the
 magnetic material layer, wherein the open inductor pattern is unconnected to the layer of
 magnetic material;

depositing a second non-magnetic insulating layer on the inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer and above the open inductor pattern.

- 2. (Withdrawn) The method of claim 1, wherein the second non-magnetic insulating layer includes parylene.
- 3. (Withdrawn) The method of claim 1, wherein the layer of magnetic material includes iron.
- 4. (Withdrawn) The method of 1, wherein the second magnetic material layer includes a NiFe alloy having about 81% Ni and 19%Fe.

5. (Withdrawn) A method of forming an inductor, comprising:

depositing a layer of magnetic material on a germanium substrate;

depositing a non-magnetic insulating layer on the magnetic material layer;

forming a plurality of sandwich structures vertically stacked on the insulating layer, the structures comprising:

an open inductor pattern;

- a first non-magnetic insulating layer deposited on the open inductor pattern;
- a layer of magnetic material deposited on the first non-magnetic insulating layer;
- a second non-magnetic insulating layer deposited on the magnetic material layer; and

forming a conductive path through the plurality of sandwich structures such that each

open inductor pattern is serially connected to the inductor pattern above by the conductive path,

and such that a current flowing in the serially connected inductor patterns creates a reinforcing

magnetic field in the layer of magnetic material between adjacent inductor patterns.

6. (Withdrawn) The method of claim 5, wherein the layer of magnetic material includes iron.

- 7. (Withdrawn) The method of claim 5, wherein the non-magnetic insulating layer includes an inorganic silicon oxide film.
- 8. (Withdrawn) The method of claim 5, wherein the open inductor pattern includes gold.

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9. (Withdrawn) A method of forming an inductor, comprising:

depositing a layer of magnetic material on a silicon-on-sapphire substrate;

depositing an insulating layer on the magnetic material layer;

forming a plurality of sandwich structures vertically stacked on the insulating layer, the structures comprising:

an open inductor pattern;

an insulating layer deposited on the open inductor pattern; and

a layer of magnetic material deposited on the insulating layer and above the open inductor pattern;

an insulating layer deposited on the magnetic material layer; and forming a conductive path through the plurality of sandwich structures such each of the plurality of sandwich structures connected by the conductive path, and such that a current flowing in the plurality of sandwich structures creates a reinforcing magnetic field in the layer of magnetic material between adjacent inductor patterns.

- 10. (Withdrawn) The method of claim 9, wherein the second non-magnetic insulating layer includes polyimide.
- 11. (Withdrawn) The method of claim 9, wherein the layer of magnetic material includes iron.
- 12. (Withdrawn) The method of claim 9, wherein the second magnetic material layer includes a NiFe alloy.

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13. (Currently Amended) A method of forming an inductor, comprising:

depositing a layer of magnetic material on a substrate;

depositing a non-magnetic insulating layer on the magnetic material layer;

forming a substantially circular open inductor pattern in the non-magnetic insulating layer and above the magnetic material layer, the open inductor pattern having an outer edge, wherein the open inductor pattern is unconnected to the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer deposited on the second non-magnetic insulating layer.

- 14. (Previously Presented) The method of claim 13, wherein the substantially circular open inductor pattern includes gold.
- 15. (Previously Presented) The method of claim 13, wherein the substantially circular open inductor pattern includes aluminum-copper.
- 16. (Previously Presented) The method of claim 13, wherein the non-magnetic insulating layer includes silicon dioxide.
- 17. (Previously Presented) The method of claim 13, wherein the second non-magnetic insulating layer includes an organic insulator.
- 18. (Previously Presented) A method of forming an inductor comprising:
  depositing a layer of magnetic material on a substrate;
  depositing a non-magnetic insulating layer on the magnetic material layer;

forming a circular open inductor pattern in the non-magnetic insulating layer and above the magnetic material layer, the open inductor pattern having an outer edge, wherein the open inductor pattern is unconnected to the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer.

- 19. (Previously Presented) The method of claim 18, wherein the circular open inductor pattern includes at least one of gold and aluminum-copper.
- 20. (Previously Presented) The method of claim 18, wherein the layer of magnetic material includes iron.
- 21. (Previously Presented) The method of claim 18, wherein the second non-magnetic insulating layer includes polyimide.
- 22. (Currently Amended) A method of forming an inductor comprising: depositing a layer of magnetic material on a substrate; depositing a non-magnetic insulating layer on the magnetic material layer;

forming a circular open inductor pattern in the non-magnetic insulating layer and above the magnetic material layer, the open inductor pattern having an outer edge, wherein the open inductor pattern is unconnected to the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer, the second magnetic material layer including a NiFe alloy having about 81% Ni and 19%Fe.

23. (Previously Presented) A method of forming an inductor, comprising:

depositing a layer of magnetic material on a silicon-on-sapphire substrate;

depositing a non-magnetic insulating layer on the magnetic material layer;

forming a substantially circular open inductor pattern in the non-magnetic insulating

layer and above the magnetic material layer, wherein the open inductor pattern is unconnected to
the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer.

24. (Original) The method of claim 23, wherein the second non-magnetic insulating layer comprises parylene.

- 25. (Previously Presented) The method of claim 23, wherein the layer of magnetic material includes iron.
- 26. (Currently Amended) A method of forming an inductor, comprising:

  depositing a layer of magnetic material on a silicon-on-sapphire substrate;

  depositing a non-magnetic insulating layer on the magnetic material layer;

  forming a substantially circular open inductor pattern in the non-magnetic insulating

  layer and above the magnetic material layer, wherein the open inductor pattern is unconnected to the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer, the second magnetic material layer including a NiFe alloy having about 81% Ni and 19%Fe.

27. (Previously Presented) A method of forming an inductor, comprising:

depositing a layer of magnetic material on a gallium arsenide substrate;

depositing a non-magnetic insulating layer on the magnetic material layer;

forming a substantially circular open inductor pattern in the non-magnetic insulating

layer and above the magnetic material layer, wherein the open inductor pattern is unconnected to the layer of magnetic material;

depositing a second non-magnetic insulating layer on the open inductor pattern; and depositing a second magnetic material layer on the second non-magnetic insulating layer.

- 28. (Previously Presented) The method of claim 27, wherein the layer of magnetic material includes iron.
- 29. (Previously Presented) The method of claim 27, wherein the non-magnetic insulating layer includes inorganic silicon oxide film.

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- 30. (Previously Presented) The method of claim 27, wherein the second non-magnetic insulating layer includes polyimide.
- 31. (Withdrawn) A method of forming an inductor, comprising:
  depositing a layer of magnetic material on a substrate;
  depositing a non-magnetic insulating layer on the magnetic material layer;
  forming a plurality of sandwich structures vertically stacked on the insulating layer, the structures comprising:
  - a substantially circular open inductor pattern having an outer edge;
  - a first non-magnetic insulating layer deposited on the open inductor pattern;
  - a layer of magnetic material deposited on the first non-magnetic insulating layer;
  - a second non-magnetic insulating layer deposited on the magnetic material layer; and
- forming conductive path through the plurality of sandwich structures such that each open inductor pattern is serially connected to the inductor pattern above by the conductive path, and such that a current flowing in the serially connected inductor patterns creates a reinforcing magnetic field in the layer of magnetic material between adjacent inductor patterns.
- 32. (Withdrawn) The method of claim 31, wherein the layer of magnetic material includes a high permeability ferromagnetic material.
- 33. (Withdrawn) The method of claim 31, wherein the open inductor pattern includes a high conductivity material.
- 34. (Previously Presented) A method of forming an inductor, comprising:

  depositing a magnetic material layer on a substrate;

  depositing a non-magnetic insulating layer on the magnetic material layer;

  depositing an open inductor pattern on the non-magnetic insulating layer and above the magnetic material layer, wherein the open inductor pattern is unconnected to the magnetic material layer;

depositing a second non-magnetic insulating layer on the open inductor pattern; and

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depositing a second magnetic material layer on the second non-magnetic insulating layer.

- 35. (Previously Presented) The method of claim 22, wherein the open inductor pattern includes iron.
- 36. (Previously Presented) The method of claim 22, wherein the non-magnetic insulating layer includes silicon dioxide.
- 37. (Previously Presented) The method of claim 26, wherein the open inductor pattern includes iron.
- 38. (Previously Presented) The method of claim 26, wherein the non-magnetic insulating layer includes organic material.